



(REFERENCE COPY - Not for submission)

Modification of a DTV Station Construction Permit Application

File Number: **0000116659** | Submit Date: **06/26/2020** | Call Sign: **WBNG-TV** | Facility ID: **23337** | FRN: **0025018029** |

State: **New York** | City: **BINGHAMTON**

Service: **DTV** | Purpose: **Minor Modification 0000027445** | Status: **Submitted** | Status Date: **06/26/2020** | Filing Status: **Active**

General Information

Section	Question	Response
Attachments	Are attachments (other than associated schedules) being filed with this application?	Yes

Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	No
	Indicate reason for fee exemption:	
	Is the applicant exempt from FCC regulatory Fees?	No
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	
	Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	No

Application Type	Fee Code	Fee Amount
Minor Modification	MPT	\$1,110.00
Total		\$1,110.00

Applicant
Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WBNG LICENSE, LLC Doing Business As: WBNG LICENSE, LLC	Brady Dreasler P.O. BOX 909 QUINCY, IL 62306 United States	+1 (217) 223- 5100	bdreasler@quincymedia. com	Limited Liability Company

Authorization Holder Name

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

Contact
Representatives
(3)

Contact Name	Address	Phone	Email	Contact Type
Stephen Hartzell Brooks, Pierce et al.	150 Fayetteville Street Suite 1700 Raleigh, NC 27601 United States	+1 (919) 839-0300	shartzell@brookspierce.com	Legal Representative
Scott Turpie <i>Senior Technical Consultant</i> Lohnes & Culver, LLC	PO Box 16343 Alexandria, VA 22302 United States	+1 (301) 776-4488	scott@locul.com	Technical Representative
Tony zumMallen <i>President</i> QCommunications, LLC	Tony zumMallen 705B SE Melody LN #314 Lees Summit, MO 64063 United States	+1 (816) 729-1177	tony@qcom1.com	Project Manager

Alien Ownership

Question		Response
1) Is the applicant a foreign government or the representative of any foreign government as specified in Section 310(a) of the Communications Act?		No
2) Is the applicant an alien or the representative of an alien? (Section 310(b)(1))		No
3) Is the applicant a corporation, or non-corporate entity, that is organized under the laws of any foreign government? (Section 310(b)(2))		No
4) Is the applicant an entity of which more than one-fifth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any entity organized under the laws of a foreign country? (Section 310(b)(3))		No
5) Is the applicant directly or indirectly controlled by any other entity of which more than one-fourth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any entity organized under the laws of a foreign country? (Section 310(b)(4))		No
6) Has the applicant received a declaratory ruling(s) under Section 310(b)(4) of the Communications Act?		No
6a) Enter the citation of the applicable declaratory ruling by DA/FCC number, FCC Record citation, release date, or any other identifying information.		
7) Has there been any change in the applicant's foreign ownership since issuance of the declaratory ruling(s) cited in response to Question 6?		
7a) Enter the File or Docket Number of the Petition for Declaratory Ruling that the applicant has filed for its foreign ownership in connection with this application pursuant to Section 310(b)(4) of the Communications Act. It is not necessary to file a request for a foreign ownership declaratory ruling if the applicant attaches a showing that the requested authorization(s) is exempt from the provisions of Section 310(b)(4).		
8) Does the applicant certify that it is in compliance with the terms and conditions of the foreign ownership declaratory ruling(s) cited in response to Question 6?		
9) In connection with this application, is the applicant filing a foreign ownership Petition for Declaratory Ruling pursuant to Section 310(b)(4) of the Communications Act?		No

Basic Qualifying Questions

Section	Question	Response
Revoked Application	Has the Applicant or any party to this application had any FCC station Authorization revoked or had any application for an initial, modification or renewal of FCC station Authorization denied by the Commission?	No
State or Federal Convictions	Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court?	No

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	23337
	State	New York
	City	BINGHAMTON
	DTV Channel	8
	Designated Market Area	Binghamton
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	1

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1016566
Coordinates (NAD83)	Latitude	42° 03' 31.0" N+
	Longitude	075° 57' 05.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	240.5 meters
	Support Structure Height	214.9 meters
	Ground Elevation (AMSL)	538.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	231.7 meters
	Height of Radiation Center Above Average Terrain	373.6 meters
	Height of Radiation Center Above Mean Sea Level	769.7 meters
	Effective Radiated Power	23.8 kW

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Non-Directional
	Do you have an Antenna ID?	Yes
	Antenna ID	109965
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	THV-7A8/VP-R 04
	Rotation	
	Electrical Beam Tilt	0.5
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Elliptical
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

**Parties to the
Application (0)**

Information not provided.

Attributable Interest

Section	Question	Response
Equity and Financial Interests	Applicant certifies that equity and financial interests not set forth by the applicant parties are non-attributable.	
Other Authorizations	Does the applicant or any party to the application have an attributable interest in any other broadcast station(s).	
Multiple Ownership	Is the applicant or any party to the application the holder of an attributable radio or television joint sales agreement or an attributable radio or television time brokerage agreement in the same market as the station subject to this application?	No
	Applicant certifies that the proposed facility complies with the Commission's multiple ownership rules and cross-ownership rules.	Yes
	Applicant certifies that the proposed facility: (a) does not present an issue under the Commission's policies relating to media interests of immediate family members; (b) complies with the Commission's polices relating to future ownership interests; (c) complies with the Commission's restrictions relating to the insulation and non-participation of non-party investors and creditors	Yes
	Does the Applicant claim status as an "eligible entity," that is, an entity that qualifies as a small business under the Small Business Administration's size standards for its industry grouping (as set forth in 13 C.F.R. § 121-201), and holds: (a) 30 percent or more of the stock or partnership interests and more than 50 percent of the voting power of the corporation or partnership that will own the media outlet; or (b) 15 percent or more of the stock or partnership interests and more than 50 percent of the voting power of the corporation or partnership that will own the media outlet, provided that no other person or entity owns or controls more than 25 percent of the outstanding stock or partnership interests; or (c) more than 50 percent of the voting power of the corporation that will own the media outlet (if such corporation is a publicly traded company)?	No

Construction
Permit
Certifications

Section	Question	Response
Post-Incentive Auction Expedited Processing	It will operate on the DTV channel for this station as established in the post-incentive auction channel reassignment public notice.	Yes
	It will operate post-incentive auction facilities that do not expand the noise-limited service contour in any direction beyond that established by the post-incentive auction channel reassignment public notice.	Yes
	It will operate post-incentive auction facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the post-incentive auction channel reassignment public notice.	Yes
	The antenna structure to be used by this facility has been registered by the Commission and will not require re-registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely affect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	Yes
Environmental Effect	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See 47 C.F.R. Section 1.1306)	No
Broadcast Facility	The proposed facility complies with the applicable engineering standards and assignment requirements of 47 C. F.R. Sections 73.616, 73.622(i), 73.623(e), 73.625, 73.1030, and 73.1125.	Yes

Legal
Certifications

Section	Question	Response
Character Issues	<p>Applicant certifies that neither applicant nor any party to the application has or had any interest in, or connection with:</p> <p>(a) any broadcast application in any proceeding where character issues were left in unresolved or were resolved adversely against the applicant or party to the application; or</p> <p>(b) any pending broadcast application in which character issues have been raised.</p>	
Adverse Findings	<p>Has the Applicant or any party to this application had an adverse finding or an adverse final action taken by any court or administrative body in a civil or criminal proceeding brought under any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?</p>	
Program Service Certification	<p>Applicant certifies that it is cognizant of and will comply with its obligations as a Commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.</p>	
Local Public Notice	<p>Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580.</p>	
Auction Authorization	<p>Is the applicant submitting an application to obtain a construction permit as a result of winning an auction?</p>	
Equal Employment Opportunity (EEO)	<p>If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report.</p>	

Certification

Section	Question	Response
General Certification Statements	The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).	
	The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.	
Authorized Party to Sign	FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application. WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	Ralph M. Oakley <i>President</i> 06/26/2020

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>WBNG-TV_Tech-Statement20200626.pdf</u>	Applicant	All Purpose	Technical Statement

**TECHNICAL STATEMENT
MINOR CHANGE TO POST-AUCTION
CONSTRUCTION PERMIT – LMS FILE NO. 0000027445
WBNG-TV 23.8 KW ERP 373.6 M HAAT CH. 8
BINGHAMTON, NEW YORK**

INTRODUCTION

WBNG License, LLC (the “Applicant”), the licensee of digital television station WBNG-TV, Facility ID No. 23337, proposes to modify this station’s post-auction construction permit,¹ which authorizes a new channel and technical parameters that were assigned through the Incentive Auction and TV-Repack process.² Specifically, the Applicant seeks to utilize a different antenna system for WBNG-TV, which will be top-mounted at an elevation significantly higher than the originally authorized side-mounted system. Because there are certain technical changes related to utilizing the proposed top-mount antenna, including an increase in antenna height of more than 2 meters and a decrease in effective radiated power (ERP), the Applicant is seeking to modify the underlying construction permit to specify those changes.

PROPOSED MINOR MODIFICATION

As stated above, the Applicant proposes to modify WBNG-TV’s post-auction construction permit to specify a new top-mount antenna for post-auction operation on Channel 8. The new antenna will be an elliptically polarized nondirectional Dielectric Model THV-7A8/VP-R 04. This new antenna will be designed to operate such that the horizontally polarized ERP will be 23.8 kW and the vertically polarized ERP will be 10.2 kW. Because the new top-mount configuration is designed to replace the antenna previously employed by WBNG-TV for

¹ FCC File No. 0000027445, which is set to expire on July 3, 2020.

² *Incentive Auction Closing and Channel Reassignment Public Notice* (“CCRPN”), DA 17-31432, FCC Rcd 2786 (2017).



analog operation on Channel 12, the overall tower height will remain the same as demonstrated in Figure 1. This exhibit also shows that the new antenna radiation center will be 231.7 meters above ground level (AGL), which is a significant increase from the current authorized height of 201.2 meters. The new antenna radiation center above mean sea level (AMSL) is 769.7 meters and the resulting height above average terrain (HAAT) is calculated to be 373.6 meters.³

The contour map attached as Figure 2 demonstrates that the proposed facility will provide a 43 dBu signal over the entire community of Binghamton, NY as required in 47 CFR §73.625.

TVSTUDY ANALYSIS

A TVStudy analysis was performed for the proposed modification using a terrain profile point spacing of 0.1 km and a summary of the results is provided in Figure 3. Although this summary does not indicate any interference check failures, the following four items were flagged: (1) Directional AM station within 3.2 km; (2) ERP exceeds maximum; (3) Proposal is within coordination distance of Canadian border; and, (4) Mutual exclusivity with another pending application was found due to interference received. Those four items are discussed in more detail below.

1. Directional AM Station within 3.2 km

The WBNG-TV supporting tower is located in the vicinity of AM station WNBK 1290 kHz in Binghamton, NY, which operates directionally in the nighttime mode only. Detuning equipment is currently installed on the WBNG-TV tower structure, which the Applicant routinely inspects and maintains to ensure that there is no disturbance to the AM station's antenna pattern. Because the Applicant intends to replace WBNG-TV's former analog Channel 12 antenna and transmission line with new equipment for operation on Channel 8, the physical characteristics of the tower structure will remain essentially unchanged, including its overall

³ The antenna HAAT was calculated using the TVStudy software, v2.2.5.



height. Nevertheless, the existing detuning apparatus will be adjusted as necessary following the proposed antenna replacement to avoid interaction with WNBF's AM antenna system.

2. ERP Exceeds Maximum

The technical parameters associated with the underlying authorization exceed the DTV maximum power and height requirements in 47 CFR §73.622(f)(7). This modification also specifies a combination of power and height that exceed those requirements, but the resulting noise-limited (NL) 36 dBu contour will not expand the coverage of the authorized facility. A contour map that shows the proposed facility is totally encompassed by the authorized facility is provided in Figure 4.

3. International Coordination

This application does not specify a change in antenna location or propose parameters that will exceed the authorized contour in any direction, which is demonstrated in the contour map of Figure 4. The aforementioned TVStudy analysis also found that the new vertical characteristics will not result in calculated interference to any Canadian stations or assignments. Therefore, no further coordination of WBNG-TV's new channel reassignment is required.

4. Mutual Exclusivity

The TVStudy results indicate that the proposed modification is mutually exclusive with FCC File BPCDT-20110516ACI, which is a prior filed DTV maximization application for non-reassigned station WGAL Channel 8 in Lancaster, PA, Facility ID No. 53390. The WGAL application requests processing based on the results of a TVStudy analysis in which a terrain profile point spacing of 0.1 km was used.⁴ Applying the same analysis settings used by WGAL, it was determined that neither application is predicted to cause or receive more than 0.5 percent pairwise (station-to-station) interference. The study results listed in Table 1 below confirm that

⁴ The application on-file for WGAL in FCC File BPCDT-20110516ACI specifies the following analysis setting: Cell size = 2.0 km; Profile point spacing = 0.1. For this reason, the same analysis settings have been utilized for WBNG-TV's proposal.



the technical parameters specified for WGAL in BPCDT-20110516ACI will not cause more than 0.5 percent of new interference to the facility modification proposed herein for WBNG-TV.

Table 1

tvstudy v2.2.5 (4uoc83)									
Database: localhost, Study: BPCDT20110516ACI, Model: Longley-Rice									
Proposal: WGAL D8 DT APP *P LANCASTER, PA									
File number: BPCDT20110516ACI									
Facility ID: 53930									
Station data: LMS TV 2020-06-25									
Record ID: 25076f91600de63001601e691b4818bc									
Country: U.S.									
Zone: I									
Study cell size: 2.00 km									
Profile point spacing: 0.10 km									

Interference to WBNG8_CP-MOD20200625 APP scenario 1									
Desired:	Call WBNG-TV	Chan D8	Svc DT	Status APP	City, State BINGHAMTON, NY	File Number WBNG8_CP-MOD20200625	Distance		
Undesireds:	WGAL	D8	DT	BL	LANCASTER, PA	DTVBL53930	231.8 km		
	WGAL	D8	DT	APP	LANCASTER, PA	BPCDT20110516ACI	231.8		
	WNJB	D8	DT	LIC	NEW BRUNSWICK, NJ	BLANK0000040678	200.3		
	WXXA-TV	D8	DT	CP	ALBANY, NY	BLANK0000034860	171.5		
	WWNY-TV	D8	DT	LIC	CARTHAGE, NY	BLANK00000115928	211.5		
	WBPH-TV	D9	DT	APP	BETHLEHEM, PA	BPCDT20110518ADP	171.5		
	W09DJ-D	D9-	DC	LIC	WILKES-BARRE, ETC., PA	BLANK00000113176	96.2		
	CFTO-DT	D8	DT	LIC	TORONTO, ON	BLANKCANADA232	330.7		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
34720.6		1,609,763		30922.7		1,118,718		0.11	0.13
				29798.7		1,117,272			
Undesired		Total IX		Unique IX, before		Unique IX, after			
WGAL D8 DT BL		173.4		18,002		56.5		15,651	
WGAL D8 DT APP		241.9		20,859		88.8		17,097	
WNJB D8 DT LIC		265.6		7,531		80.5		1,775	
WXXA-TV D8 DT CP		397.3		8,674		208.7		3,620	
WWNY-TV D8 DT LIC		669.5		20,467		440.6		13,778	
W09DJ-D D9- DC LIC		28.4		5,903		20.3		5,554	
CFTO-DT D8 DT LIC		8.0		188		0.0		0	

ENVIRONMENTAL IMPACT

This application specifies an existing FCC registered tower that was constructed before March 16, 2001.⁵ Given that the collocation of WBNG-TV's new antenna will not result in a substantial increase in the size of the existing antenna-supporting structure,⁶ the criteria

⁵ 47 CFR Part 1, App. B, § III.A. "An antenna may be mounted on an existing tower constructed after March 16, 2001 without such collocation being reviewed through the Section 106 process set forth in the NPA, unless: 1. The Section 106 review process for the existing tower set forth in 36 CFR part 800 (including any applicable program alternative approved by the Council pursuant to 36 CFR 800.14) and any associated environmental reviews required by the FCC have not been completed; or, 2. The mounting of the new antenna will result in a substantial increase in the size of the tower as defined in Stipulation I.E, above; or, 3. The tower as built or proposed has been determined by the FCC to have an adverse effect on one or more historic properties, where such effect has not been avoided or mitigated through a conditional no adverse effect determination, a Memorandum of Agreement, a Programmatic Agreement, or otherwise in compliance with Section 106 and the NPA; or, 4. The collocation licensee or the owner of the tower has received written or electronic notification that the FCC is in receipt of a complaint from a member of the public, an Indian Tribe, a SHPO or the Council, that the collocation has an adverse effect on one or more historic properties."

⁶ 47 CFR Part 1, App. B, § I.C. A substantial increase in size means: "(1) The mounting of the proposed antenna on the tower would increase the existing height of the tower by more than 10%, or by the height of one additional



outlined in 47 CFR § 1.1307(a) for certain types of facilities that may significantly affect the environment do not apply. With regard to the rules for limiting human exposure to radio-frequency (RF) energy in 47 CFR § 1.1307(b), this application seeks authority to operate a television broadcast antenna in full compliance with the maximum permissible exposure (MPE) limits as described in more detail below. The following technical parameters are proposed for WBNG-TV:

Frequency:	180 - 186 MHz (VHF Channel 8)
Effective Radiated Power:	23.8 kW (H); 10.2 kW (V)
Antenna Type:	Nondirectional; Dielectric Model THV-7A8/VP-R 04
Antenna Polarization:	Elliptical
Antenna Height AGL:	231.7 meters
Location coordinates NAD83:	42-03-31.0 N, 075-57-05.0 W
Site elevation AMSL:	538.0 meters
Overall tower height AGL:	240.5 meters
FCC ASRN:	1016566

Because there are multiple RF sources mounted on the tower, the MPE-Based Exemption criteria in 47 CFR §1.1370(b) for such circumstances was applied and the findings support an exemption from further routine environmental evaluation. As determined in Table 2 below, the summation of all the normalized powers is not more than 1 and therefore the site does not collectively exceed 100 percent of the general MPE limit for uncontrolled environments. Accordingly, the proposed modification is not subject to further evaluation under 47 CFR § 1.1307(a) or (b) and is categorically excluded from environmental processing by 47 CFR § 1.1306.

antenna array with separation from the nearest existing antenna not to exceed twenty feet, whichever is greater, except that the mounting of the proposed antenna may exceed the size limits set forth in this paragraph if necessary to avoid interference with existing antennas; or (2) The mounting of the proposed antenna would involve the installation of more than the standard number of new equipment cabinets for the technology involved, not to exceed four, or more than one new equipment shelter; or (3) The mounting of the proposed antenna would involve adding an appurtenance to the body of the tower that would protrude from the edge of the tower more than twenty feet, or more than the width of the tower structure at the level of the appurtenance, whichever is greater, except that the mounting of the proposed antenna may exceed the size limits set forth in this paragraph if necessary to shelter the antenna from inclement weather or to connect the antenna to the tower via cable; or (4) The mounting of the proposed antenna would involve excavation outside the current tower site, defined as the current boundaries of the leased or owned property surrounding the tower and any access or utility easements currently related to the site."



Table 2

MULTIPLE RADIOFREQUENCY SOURCES - MPE-BASED SUMMATION								
Call sign	MHz	Pol	Power (H+V)	RCAGL	R ¹	Method of Evaluation	MPE-Based <i>TH-ERP(W)</i>	Normalized Powers
WBNG-TV	183	E	34.0 <i>ERP-kW</i>	231.7 m	229.7 m	Exemption	202078.8	0.168
WAAL(FM)	99.1	C	17.4 <i>ERP-kW</i>	150.0 m	148.0 m	Exemption	83892.3	0.207
WLF495	6975	V	66.2 <i>EIRP-dBm</i>	62.2 m	60.2 m	Exemption	69581.6	0.037
							Total:	0.412
1 Separation distance based on a human head height of 2 meters.								

Steps to limit exposure to persons authorized to access the transmitter site will be consistent with the appropriate recommendations in *FCC OET Bulletin No. 65, Edition 97-01*, (OET-65). All maintenance and other related work to be performed at elevations higher than 2 meters above ground will be coordinated to prevent exposure to RF fields in excess of the controlled limit. Such preventative steps shall include reducing power or shutting down the facility.

Respectfully submitted,

Scott Turpie
 Technical Consultant
 Lohnes & Culver, LLC
 P.O. Box 16343
 Alexandria, VA 22302
 Ph. 301-776-4488

June 26, 2020

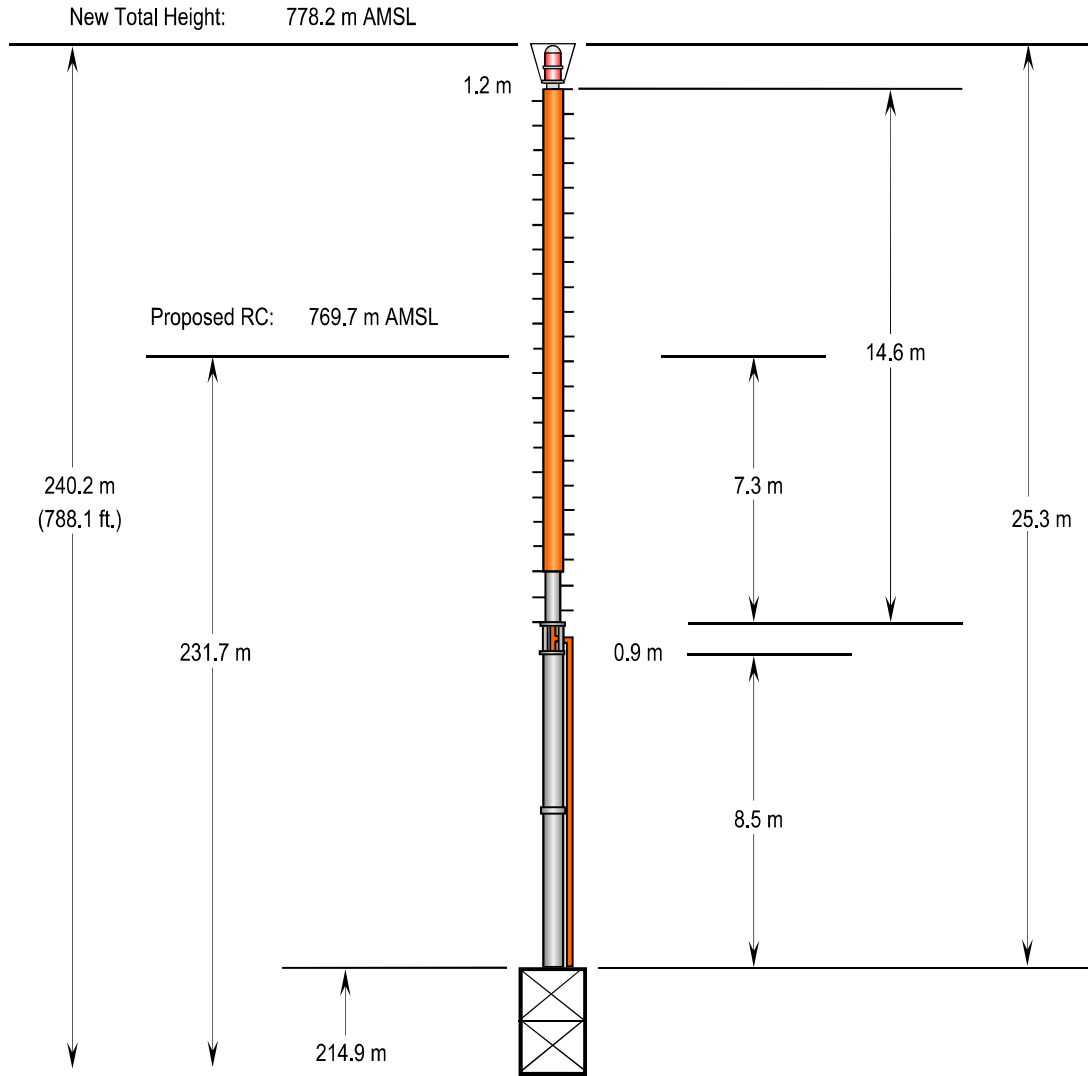
Attachment

- Figure 1 – Antenna Sketch
- Figure 2 – Principle Community Coverage Map
- Figure 3 – TV Study Analysis
- Figure 4 – Authorized & Proposed NL Contours

Tower Specifications

	FAA	Proposal	ASR
Site Elevation AMSL:	1,765 ft.	1,765 ft.*	538.0 m
Overall Height AGL:	789 ft.	789 ft.*	240.5 m
Total Height AMSL:	2,554 ft.	2,554 ft.	778.5 m
Tower Height AGL:			214.9 m

*FAA rounding (Site = nearest whole foot; Overall = next highest foot)

**Dielectric****Mechanical Specifications**

Height with Lightning Protector:

Height less Lightning Protector:

Height of Center of Radiation:

Antenna Support Pole:

Antenna

52 ft. (15.8 m)

48 ft. (14.6 m)

24 ft. (7.3 m)

28 ft. (8.5 m)

Full stack

83 ft. (25.3 m)

79 ft. (24.1 m)

40 ft. (12.0 m)

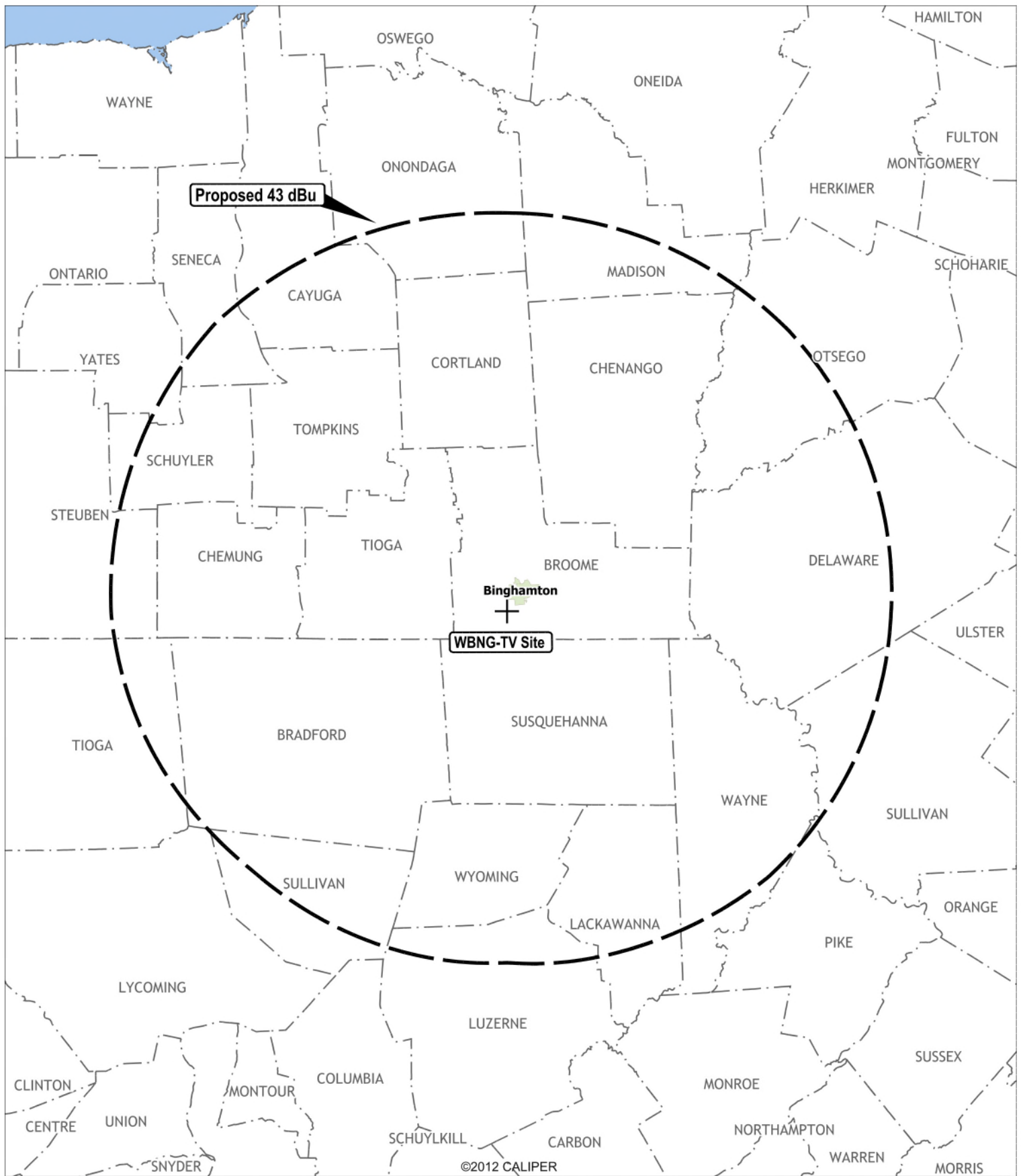


FIGURE 2
PROPOSED CITY-GRADE CONTOUR
COVERAGE OF PRINCIPAL COMMUNITY
WBNG-TV 23.8 KW ERP 373.6 M HAAT CH. 8
BINGHAMTON, NEW YORK

June 2020

LOHNES & CULVER
 A Limited Liability Company

TELECOMMUNICATIONS CONSULTING
 P.O. Box 16343 Alexandria, Virginia 22302

SCALE 1:1,250,000
 10 0 10 20 30 40
 Kilometers

FIGURE 3
Interference Analysis Summary
TVSTUDY, VERSION 2.2.5.

Study created: 2020.06.25 12:15:43

Study build station data: LMS TV 2020-06-25

Proposal: WBNG-TV D8 DT APP BINGHAMTON, NY

File number: WBNG8_CP-WD20200625

Facility ID: 23337

Station data: User record

Record ID: 606

Country: U.S.

Zone: 1

Search options:

Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WNYA	D7	DT	CP	PITTSFIELD, MA	BLANK0000078439	171.5 km
No	WNYA	D7	DT	BL	PITTSFIELD, MA	DTVBL136751	173.1
Yes	WICZ-TV	D7	DT	CP	BINGHAMTON, NY	BLANK0000034576	0.7
Yes	WICZ-TV	D7	DT	BL	BINGHAMTON, NY	DTVBL62210	0.7
No	WABC-TV	D7	DT	LIC	NEW YORK, NY	BLCDT20121031ABC	219.2
No	WABC-TV	D7	DT	CP	NEW YORK, NY	BMPDCT20080620AMV	220.2
No	WBZZ-TV	D7	DT	LIC	SPRINGVILLE, NY	BLCDT20100525AEW	234.7
No	WNTH	D8	DT	LIC	POLAND SPRING, ME	BLCDT20090622ACH	466.5
Yes	WNJB	D8	DT	LIC	NEW BRUNSWICK, NJ	BLANK0000040678	200.3
Yes	WXXA-TV	D8	DT	CP	ALBANY, NY	BLANK0000034860	171.5
Yes	WXXA-TV	D8	DT	BL	ALBANY, NY	DTVBL11970	171.5
Yes	WNYV-TV	D8	DT	LIC	CARTHAGE, NY	BLANK0000015928	211.5
Yes	WBOP-TV	D8	DT	LIC	JOHNSTOWN, PA	BLANK0000001637	339.6
Yes	WGAL	D8	DT	APP	LANCASTER, PA	BPDCT20110516ACI	231.8
Yes	WGAL	D8	DT	LIC	LANCASTER, PA	BLCDT20110323ABF	231.8
No	WHAM-TV	D9	DT	LIC	ROCHESTER, NY	BLANK0000004853	179.3
Yes	WBPH-TV	D9	DT	APP	BETHLEHEM, PA	BPDCT20110518ADP	171.5
Yes	WBPH-TV	D9	DD	APP	BETHLEHEM, PA	BLANK0000063055	171.5
Yes	WBPH-TV	D9	DT	LIC	BETHLEHEM, PA	BLANK00000064341	171.5
Yes	WBPH-TV	D9	DT	CP	BETHLEHEM, PA	BLANK0000067446	171.5
Yes	WBPH-TV	D9	DD	APP	BETHLEHEM, PA	BLANK0000067447	171.5
No	W09DU-D	D9--	DC	LIC	WILKES-BARRE, ETC., PA	BLANK00000113176	96.2
No	W09DB-D	D9z	DC	LIC	WILLIAMSPORT, PA	BLANK0000001611	125.3
Yes	CFTO-DT	D8	DT	LIC	TORONTO, ON	BLANKCANADA232	330.7

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

WNBF 1290 L DAN D BINGHAMTON, NY BL19991018AA0
WNBF 1290 L DAN N BINGHAMTON, NY BL19991018AA0

Record parameters as studied:

Channel: D8
Latitude: 42 3 31.00 N (NAD83)
Longitude: 75 57 5.00 W
Height AMSL: 769.7 m
HAAT: 373.6 m
Peak ERP: 23.8 kW
Antenna: Omnidirectional
Elev Pattern: Generic
Elec Tilt: 0.50

36.0 dBu contour:	ERP	HAAT	Distance
0.0 deg	23.8 kW	426.4 m	109.1 km
45.0	23.8	420.1	108.5
90.0	23.8	371.6	104.7
135.0	23.8	337.2	101.9
180.0	23.8	244.3	96.5
225.0	23.8	305.9	99.5
270.0	23.8	417.2	108.3
315.0	23.8	465.7	112.2

ERP exceeds maximum
ERP: 23.8 kW ERP maximum: 15.3 kW

**Proposal is within coordination distance of Canadian border
Distance to Canadian border: 187.9 km

Distance to Mexican border: 2618.7 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 311.8 degrees Distance: 143.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 274.9 degrees Distance: 2448.9 km

Study cell size: 2.00 km
Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Below is IX received by proposal WBNG8_CP-WD20200625

**MX with BPDCT20110516ACI APP scenario 1, 4.32% interference received
Proposal receives 3.66% interference from scenario 2
**MX with BPDCT20110516ACI APP scenario 3, 4.25% interference received
Proposal receives 3.59% interference from scenario 4

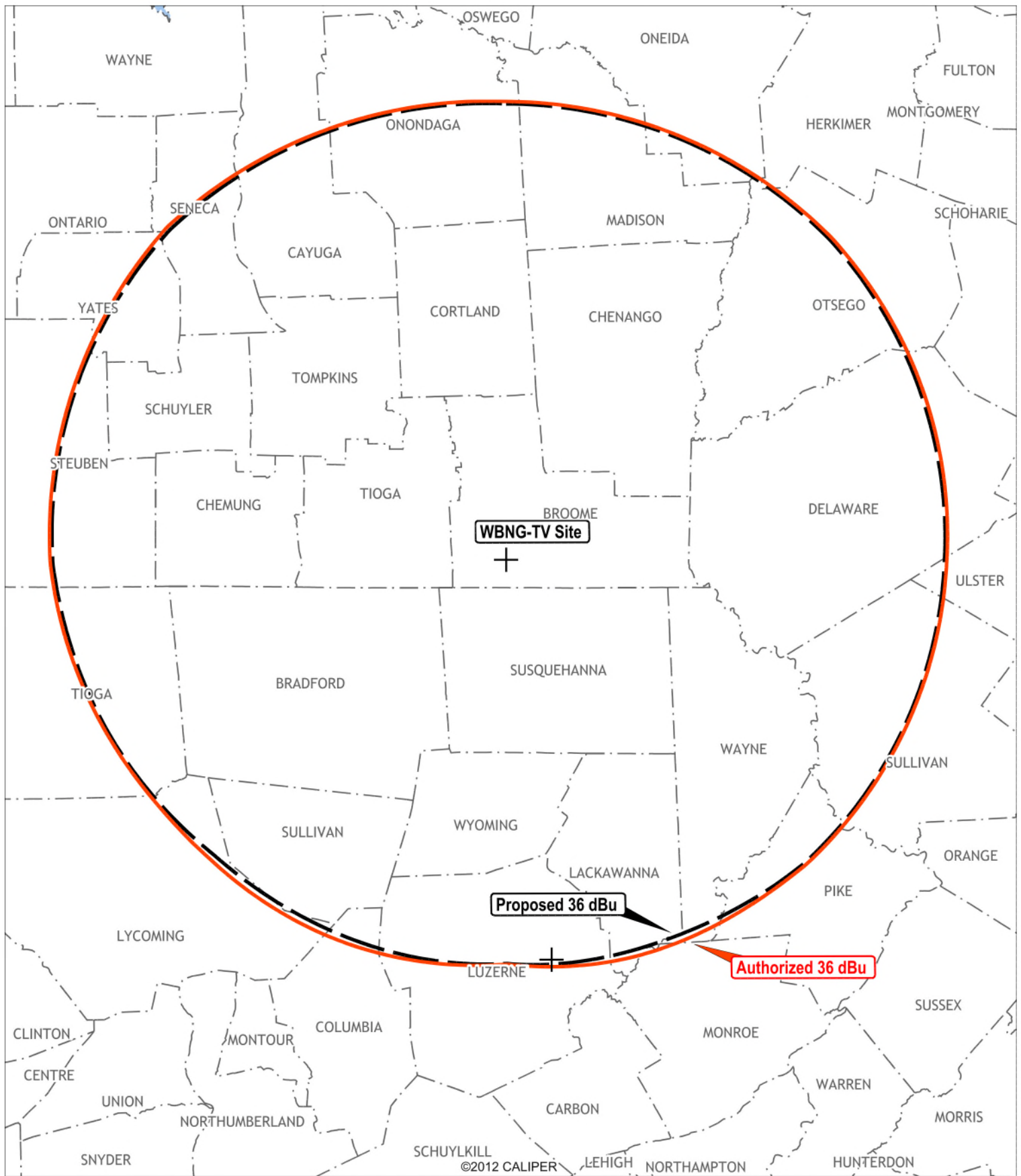


FIGURE 4
AUTHORIZED & PROPOSED
NOISE-LIMITED 36 DBU CONTOURS
AUTHORIZED 34 KW ERP 342.3 M HAAT CH. 8
PROPOSED 23.8 KW ERP 373.6 M HAAT CH. 8
BINGHAMTON, NEW YORK

June 2020

LOHNES & CULVER
 A Limited Liability Company

TELECOMMUNICATIONS CONSULTING
 P.O. Box 16343 Alexandria, Virginia 22302

SCALE 1:1,250,000

10 0 10 20 30 40
 Kilometers



Electronic Form 159

[Back](#) | [Print](#)**Electronic Form 159****Payment Confirmation**

Your transaction has been approved. For your records, please note the following:

AGENCY TRACKING ID:	PGC3410950
AUTHORIZATION NUMBER :	088113
AMOUNT PAID :	\$1,110.00

[PRINT FORM 159](#)[CLOSE](#)**Customer Service**[FCC Fees](#)[Web Policies](#) / [Privacy Policy](#)[FCC Home Page](#)

If you have any questions or concerns please contact your licensing system help desk.

Agency Tracking ID:PGC3410950 Authorization Number:088113

Successful Authorization -- Date Paid: 6/26/20 FILE COPY ONLY!!

READ INSTRUCTIONS CAREFULLY BEFORE PROCEEDING (1) LOCKBOX #979089	FEDERAL COMMUNICATIONS COMMISSION REMITTANCE ADVICE FORM 159 PAGE NO 1 OF 1	APPROVED BY OMB 3060-059 SPECIAL USE FCC USE ONLY
SECTION A - Payer Information		
(2) PAYER NAME (if paying by credit card, enter name exactly as it appears on your card) WBNG License, LLC		(3) TOTAL AMOUNT PAID (dollars and cents) \$1110.00
(4) STREET ADDRESS LINE NO. 1 560 Columbia Dr.		
(5) STREET ADDRESS LINE NO. 2		
(6) CITY Johnson City	(7) STATE NY	(8) ZIP CODE 13790
(9) DAYTIME TELEPHONE NUMBER (INCLUDING AREA CODE) 217-2235100		(10) COUNTRY CODE (IF NOT IN U.S.A.) US
FCC REGISTRATION NUMBER (FRN) AND TAX IDENTIFICATION NUMBER (TIN) REQUIRED		
(11) PAYER (FRN) 0025018029		(12) FCC USE ONLY
IF PAYER NAME AND THE APPLICANT NAME ARE DIFFERENT, COMPLETE SECTION B IF MORE THAN ONE APPLICANT, USE CONTINUATION SHEETS (FORM 159-C)		
(13) APPLICANT NAME WBNG License, LLC		
(14) STREET ADDRESS LINE NO. 1 P.O. BOX 909		
(15) STREET ADDRESS LINE NO. 2		
(16) CITY QUINCY	(17) STATE IL	(18) ZIP CODE 62306
(19) DAYTIME TELEPHONE NUMBER (INCLUDING AREA CODE) +1 (217) 223-5100		(20) COUNTRY CODE (IF NOT IN U.S.A.) US
FCC REGISTRATION NUMBER (FRN) AND TAX IDENTIFICATION NUMBER (TIN) REQUIRED		
(21) APPLICANT (FRN) 0025018029		(22) FCC USE ONLY
COMPLETE SECTION C FOR EACH SERVICE, IF MORE BOXES ARE NEEDED, USE CONTINUATION SHEET		
(23A) FCC Call Sign/Other ID	(24A) Payment Type Code(PTC) MPT	(25A) Quantity 1
(26A) Fee Due for (PTC) \$1,110.00	(27A) Total Fee \$1110.00	FCC Use Only
(28A) FCC CODE 1 23337	(29A) FCC CODE 2 LMS0000116659	
(23B) FCC Call Sign/Other ID	(24B) Payment Type Code(PTC)	(25B) Quantity
(26B) Fee Due for (PTC)	(27B) Total Fee	FCC Use Only
(28B) FCC CODE 1	(29B) FCC CODE 2	

Carol Heynen Wooten

From: notification@pay.gov
Sent: Friday, June 26, 2020 8:01 PM
To: Carol Heynen Wooten
Subject: Pay.gov Payment Confirmation: Remittance Advice

[EXTERNAL]

Your payment has been submitted to [Pay.gov](https://pay.gov) and the details are below. If you have any questions or you wish to cancel this payment, please contact FCC Financial Operations Group Help Desk at ARINQUIRIES@fcc.gov at 877-480-3201 option 6.

Application Name: Remittance Advice
[Pay.gov](https://pay.gov) Tracking ID: 26P9SE38
Agency Tracking ID: PGC3410950
Transaction Type: Sale
Transaction Date: Jun 26, 2020 8:00:55 PM

Account Holder Name: WBNG License, LLC
Transaction Amount: \$1,110.00
Card Type: Visa
Card Number: *****3232

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.